



# Keyboard, Video, and Mouse (KVM) Switch Checklist for Sharing Peripherals Across the Network Security Technical Implementation Guide Version 1 Release 1.2

14 April 2006

# Developed by DISA for the DOD

Database Reference Number: _		CAT I:
Database entered by:	Date:	CAT II:
Technical Q/A by:	Date:	CAT III:
Final Q/A by:	Date:	CAT IV:
		Total:

# UNCLASSIFIED UNTIL FILLED IN

# **CIRCLE ONE**

# FOR OFFICIAL USE ONLY (mark each page)

# CONFIDENTIAL and SECRET (mark each page and each finding)

Classification is based on classification of system reviewed:

Unclassified System = FOUO Checklist Confidential System = CONFIDENTIAL Checklist Secret System = SECRET Checklist Top Secret System = SECRET Checklist

Enclave R	eviewer				Phone				
Previous S	RR	Y N	Date SRR	of Previous		S01 A	vailable	Y	N
Number of	f Current (	)pen Find	ngs						
Site Name									
Address									
Phone									

Position	Name	Phone Number	Email	Area of Responsibility
IAM				
IAO				

#### **SPAN KVM:**

The following is an outline of the process for performing a SPAN SAN review and entering the results using VMS 6.0.

- 1. Ensure that asset is registered in VMS under the correct organization. The asset will have the posture of Computing → Network → Data Network → Network Peripherals → KVM. If the asset has an identifiable operating system the posture will also include the appropriate OS.
- 2. If the asset is registered skip to Step 4 otherwise you must register the asset. You will find the appropriate selection criteria by selecting Asset Finding Maint → Assets/Findings → By Location → your location → Computing and then click on the file icon to create the asset.
- 3. On the General tab fill out the Host Name and appropriate values for the other fields on this tab.
- 4. Determine the enclave that the asset is within.
- 5. If the asset is in the correct enclave, skip to step 9.
- 6. Enter the enclave on the Systems/Enclaves tab of the asset creation / or update screen
- 7. For registered enclaves, choose the enclave.
- 8. If the enclave is not present, contact your team lead or your IAM and report that the enclave is not present.
  - NOTE: Every effort should be made when registering or updating an asset to include the asset within an enclave.
- 9. Since at this time there is no scripted review process that automatically generates an import file, only the fields required by VMS need to be filled in unless there are other elements in the asset posture that require specific fields for their scripts. Any additional fields may be filed in for documentation purposes. The more documentation the better for identifying the system correctly.
- 10. Print the Checklist and perform a manual review for the KVM component.
- 11. Manually key results into VMS.
  - Reviewers: By navigating to the pertinent visit, selecting the asset, and expanding the appropriate element for this review. If the asset is not found in the visit, notify your Team Lead and have them enter it into the visit.
  - Systems Administrators: by navigating to the your location, selecting the asset and expanding the appropriate element for review.
  - The appropriate element will be KVM.
- 12. Process any additional reviews required by additional elements within the asset posture.

# KVM01.001.00 CAT: 4 KVM Users Agreement

8500.2 IA Control: PRRB-1 Category: 6.4 - Training & Certification

VMS Vul Key: V0006675

Vulnerability Written user agreements for all users authorized to use the KVM or A/B switch are not being maintained..

Vulnerability A written users agreement allows the IAO to be certain the end user that will be using the equipment has been presented with the Discussion: documentation that explains their duties and responsibilities in relation to the equipment and that they have acknowledged that they

have read the documentation and understand it. Though there is no guarantee that user will perform as required, it will lessen the

problems caused by uninformed users.

The IAO will maintain written user agreements for all users authorized to use the KVM or A/B switch.

References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE

Checks: SPAN KVM01.001.00: The reviewer will interview the IAO and view the written agreements.

The agreement will require the user to perform the following.

- Logging onto an IS.
  - a. Identify the classification of the IS currently selected.
  - b. Use the login and passwords appropriate for that IS.
  - Verify the classification of the present IS by checking the classification label/banner.
  - d. Begin processing.
- Switching between ISs.
  - a. Screen lock the IS you are currently working on if the IS supports this capability.
  - b. Select the desired IS with the switch.
  - c. Enter your user identifier and password to deactivate the screen lock on the newly selected IS.
  - Verify the classification of the present IS by checking the classification label/banner.
  - e. Begin processing.

The agreement may state that the user has read and understands the SFUG sections dealing with the KVM switch usage if the SFUG or similar documentation exists.

Fix(es): SPAN KVM01.001.00: Develop a user agreement, have each user of KVM or A/B switches sign a the user agreement, and keep the signed agreement on file.

OPEN: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:

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Notes:									
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#### KVM01.002.00 CAT: 3 SFUG information for KVM and A/B switches.

8500.2 IA Control: PRRB-1 Category: 6.4 - Training & Certification

VMS Vul Key: V0006676

Vulnerability A SFUG, or an equivalent document, that describes the correct uses of the switch and the users responsibilities, is not being

Vulnerability The SFUG or an equivalent document describes the users security responsibilities including any site-specific requirements. This gives Discussion: the user a single reference source for both initial indoctrination and for later review. The distribution of the SFUG will lessen the vulnerabilities create by user ignorance of policy or procedures required by the site. By keeping this document current the user will

have the current policies and procedures available.

The IAO will maintain and distribute to the users a SFUG, or an equivalent document, that describes the correct uses of the switch and

the users responsibilities.

References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE

Checks: SPAN KVM01.002.00: The reviewer will interview the IAO and review the documentation. SFUG is a Security Features User Guide. The SFUG will at a minimum have the following requirements.

- 1. Logging onto an IS.
  - Identify the classification of the IS currently selected.
  - Use the login and passwords appropriate for that IS.
  - Verify the classification of the present IS by C. checking the classification label/banner.
- Begin processing. d.
- Switching between ISs.
  - a. Screen lock the IS you are currently working on if the IS supports this capability.
  - Select the desired IS with the switch.
  - Enter your user identifier and password to deactivate the screen lock on the newly selected IS.
  - Verify the classification of the present IS by checking the classification label/banner.
  - Begin processing.

Fix(es): SPAN KVM01.002.00: If a Security Features User Guide does not exist, develop one making sure that there is a section for KVM and A/B switches containing the information found in the SPAN STIG.

If a Security Features User Guide exist create a section for KVM and A/B switches that contains the information found in the SPAN STIG.

OPE	NOT A FINDING:	NOT REVIEWED:	NOT APPLICABLE:
Notes:			

KVM01.003.00	CAT: <b>1</b>	KVM switch physical security				
8500.2 IA Control:	PECF-1: PECF-2	Category: 5.9 - Device Locations				
VMS Vul Key:	V0006677					
Vulnerability	The KVM switch is no KVM switch.	ot physically protected in accordance with the requirements of the highest classification for any IS connected to the				
	the KVM switch, the I disruption of the syste The IAO or SA will er	F the KVM switch is not physically protected in accordance with the requirements of the highest classification for any IS connected to the KVM switch, the KVM switch can be tampered with leading to the compromise of sensitive data or a denial of service caused by the disruption of the systems the KVM switch is connected. The IAO or SA will ensure that the KVM switch is physically protected in accordance with the requirements of the highest classification for any IS connected to the KVM switch.				
References:	SHARING PERIPHE	RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE				
Checks:		C: The reviewer will check the location of the KVM switch. Verify that it is located in area that is secured in the uired of the IS with the highest classification level.				
Fix(es):		D: Develop a plan to move the KVM switch to a location that is physically protected in accordance with the ighest classification for any IS connected to the KVM switch. Obtain CM approval for the plan and implement the				
ОРЕ	:N: NOT	A FINDING: NOT REVIEWED: NOT APPLICABLE:				
Notes:						
KVM01.004.00	CAT: <b>4</b>	KVM Smart (intelligent or programmable) keyboard				
<b>KVM01.004.00</b> 8500.2 IA Control:		KVM Smart (intelligent or programmable) keyboard  Category: 11.3 - Transport				
	DCBP-1	, , , , , ,				
8500.2 IA Control: VMS Vul Key:	DCBP-1 V0006678	, , , , , ,				
8500.2 IA Control: VMS Vul Key: Vulnerability	DCBP-1 V0006678 Smart (intelligent or p A smart (intelligent or data.	Category: 11.3 - Transport  programmable) keyboard is used in conjunction with a KVM switch.  programmable) keyboard can transfer sensitive data from one system to another leading to the compromise of				
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion:	DCBP-1 V0006678 Smart (intelligent or p A smart (intelligent or data. The IAO or SA will er	Category: 11.3 - Transport  programmable) keyboard is used in conjunction with a KVM switch.  programmable) keyboard can transfer sensitive data from one system to another leading to the compromise of asure that no smart (intelligent or programmable) keyboard is used in conjunction with a KVM switch.				
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion: References:	DCBP-1 V0006678 Smart (intelligent or part of the IAO or SA will end SHARING PERIPHE SPAN KVM01.004.00 card slots, and remove	Category: 11.3 - Transport  programmable) keyboard is used in conjunction with a KVM switch.  programmable) keyboard can transfer sensitive data from one system to another leading to the compromise of				
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:	DCBP-1 V0006678 Smart (intelligent or part of the IAO or SA will er SHARING PERIPHE SPAN KVM01.004.00 card slots, and remove Note that a keyboard	Category: 11.3 - Transport  programmable) keyboard is used in conjunction with a KVM switch.  programmable) keyboard can transfer sensitive data from one system to another leading to the compromise of asure that no smart (intelligent or programmable) keyboard is used in conjunction with a KVM switch.  RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  The reviewer will interview the IAO and view the keyboard attached. Keyboards that include USB ports, smart vable media slots are considered smart keyboards.				
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion: References: Checks:	DCBP-1 V0006678 Smart (intelligent or part of the IAO or SA will er SHARING PERIPHE SPAN KVM01.004.00 card slots, and remon Note that a keyboard SPAN KVM01.004.00	Category: 11.3 - Transport  programmable) keyboard is used in conjunction with a KVM switch.  programmable) keyboard can transfer sensitive data from one system to another leading to the compromise of asure that no smart (intelligent or programmable) keyboard is used in conjunction with a KVM switch.  RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  D: The reviewer will interview the IAO and view the keyboard attached. Keyboards that include USB ports, smart vable media slots are considered smart keyboards. that has extended functionality that is not programmable, like an internet keyboard, is not prohibited.				
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:  Fix(es):	DCBP-1 V0006678 Smart (intelligent or part of the IAO or SA will er SHARING PERIPHE SPAN KVM01.004.00 card slots, and remon Note that a keyboard SPAN KVM01.004.00	Category: 11.3 - Transport  programmable) keyboard is used in conjunction with a KVM switch.  programmable) keyboard can transfer sensitive data from one system to another leading to the compromise of asure that no smart (intelligent or programmable) keyboard is used in conjunction with a KVM switch.  RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  1. The reviewer will interview the IAO and view the keyboard attached. Keyboards that include USB ports, smart vable media slots are considered smart keyboards. that has extended functionality that is not programmable, like an internet keyboard, is not prohibited.  2. Replace the smart keyboard with a keyboard that is not a smart keyboard.				

VM01.005.00	CAT: <b>2</b>	KVM Wireless keyboard and Mouse
500.2 IA Control:	ECWN-1	Category: 14.2 - Protocol Security
VMS Vul Key:	V0006679	
Vulnerability	A wireless keyboard	or mouse that is not in compliance with the current Wireless STIG is attached to a KVM switch.
		ess devices can be intercepted and decoded whick can lead to the compromise of sensitive data. nsure that wireless keyboards or mice attached to KVM switches are in compliance with the current Wireless STIG.
References:	SHARING PERIPHE	RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE
Checks:	SPAN KVM01.005.0 Wireless STIG section	0: The reviewer will look at the keyboard and the mouse. If either is wireless, verify that it is in compliance with the on 2.4.
Fix(es):	device cannot be ma	0: Reconfigure the wireless device, if possible, to be compliant with the Wireless STIG section 2.4. If the wireless ade compliant with the Wireless STIG, replace the device with a wireless device that can be made compliant with r with a wire connected device.
OPE	N: NO	T A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:		
XVM01.006.00	CAT: <b>3</b>	KVM Desktop Backgrounds
3500.2 IA Control:	ECML-1	Category: 11.1 - Marking
VMS Vul Key:	V0006680	
Vulnerability	The desktop backgro	ounds of ISs attached to a KVM switch are not labeled with banners in accordance with this STIG.
	create a denial of se of the wrong classific	to identify the IS that the KVM switch is currently active on, the user could enter a command to the wrong IS and rvice or the user could inter data into the wrong system creating either a security incident (data entered to a system cation) or a compromise of sensitive data.  Insure that the desktop backgrounds of ISs attached to a KVM switch are labeled with banners in accordance with
References:	SHARING PERIPHE	RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE
Checks:	labeled as required. The desktop backgro These banners will s These banners will h Yellow for Special Orange for Tope S Red for Secret. Blue for Confident Green for Unclass When ISs have simil networks is permissi	tial. sified. lar classification levels but require separation for other reasons, the use of unique colors for different ISs or
Fix(es):	SPAN KVM01.006.0 STIG.	0: Modify the screen backgrounds for each IS attached to the KVM switch to comply with the guidance given in the
OPE	N: NO	T A FINDING: NOT REVIEWED: NOT APPLICABLE:

KVM01.007.00	CAT: <b>2</b>	KVM switch Configuration Password.					
8500.2 IA Control:	IAIA-1: IAIA-2	Category: 2.1 - Object Permissions					
VMS Vul Key:	V0006681						
Vulnerability	The KVM switch has	e KVM switch has configurable features, but the configuration is not protected from modification with a DOD compliant password.					
	configuration is not p the compromise of se	configurable, some feature that are available such as auto toggling between attached ISs are not permitted. If the rotected by a password it can be modified by any user allowing features that are not permitted. This can lead to ensitive data.  Is configurable features, the IAO or SA will ensure that the configuration is protected from modification with a DOD					
References:	SHARING PERIPHE	RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE					
Checks:	configuration with a r Note the emphasis h	D: If the KVM switch is configurable, the reviewere will, with the assistance of the SA, try to change the andom password and with no password.  Bere is the protection of the configuration not the technique, if the configuration is protected as a function of a sword sign in to the KVM switch or by a DOD PKI (for network attached KVM switches) this fulfills this requirement.					
Fix(es):	PKI for network attact If the KVM switch's c	b: If the KVM switch's configuration can be protected by a password, including userid/password combinations or hed switches, create a DOD compliant password to protect the configuration. onfiguration cannot be protected by a password, including userid/password combinations or PKI for network place it with a KVM switch that either has no configuration or the configuration can be protected by a password.					
ОРЕ	N: NOT	A FINDING: NOT REVIEWED: NOT APPLICABLE:					
Notes:							
KVM01.008.00	CAT: <b>2</b>	KVM Automatic Toggling between ISs					
<b>KVM01.008.00</b> 8500.2 IA Control:		KVM Automatic Toggling between ISs  Category: 11.2 - Dissemination					
	DCBP-1						
VMS Vul Key:	DCBP-1 V0006682						
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability	DCBP-1 V0006682 The KVM switch has The feature that auto contains sensitive inf	Category: 11.2 - Dissemination					
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion:	DCBP-1 V0006682 The KVM switch has The feature that auto contains sensitive inf The IAO or SA will er	Category: 11.2 - Dissemination  the feature for automatically toggling between ISs and it is not disabled.  matically toggles between connected ISs or active ISs can cause a screen to be automatically displayed that brimation. This can lead to the compromise of sensitive data.					
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:	DCBP-1 V0006682 The KVM switch has The feature that auto contains sensitive inf The IAO or SA will er SHARING PERIPHE SPAN KVM01.008.00	Category: 11.2 - Dissemination  the feature for automatically toggling between ISs and it is not disabled.  matically toggles between connected ISs or active ISs can cause a screen to be automatically displayed that ormation. This can lead to the compromise of sensitive data.  sure that the feature for automatically toggling between ISs is disabled.					
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:	DCBP-1 V0006682 The KVM switch has The feature that auto contains sensitive inf The IAO or SA will er SHARING PERIPHE SPAN KVM01.008.00 assistance of the IAO SPAN KVM02.008.00 the ability to switch p	Category: 11.2 - Dissemination  the feature for automatically toggling between ISs and it is not disabled.  matically toggles between connected ISs or active ISs can cause a screen to be automatically displayed that bornation. This can lead to the compromise of sensitive data.  Issure that the feature for automatically toggling between ISs is disabled.  RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  Or If the KVM switch has the feature for automatically toggling between ISs, the reviewer will verify, with the					
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:	DCBP-1 V0006682 The KVM switch has The feature that auto contains sensitive inf The IAO or SA will er SHARING PERIPHE SPAN KVM01.008.00 assistance of the IAO SPAN KVM02.008.00 the ability to switch p If the KVM switch car SPAN STIG.	the feature for automatically toggling between ISs and it is not disabled.  matically toggles between connected ISs or active ISs can cause a screen to be automatically displayed that formation. This can lead to the compromise of sensitive data.  Issure that the feature for automatically toggling between ISs is disabled.  RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  D: If the KVM switch has the feature for automatically toggling between ISs, the reviewer will verify, with the for SA, that it is disabled. If the feature is disable but the configuration is not protected then this is a finding.  D: Disable the feature for automatically toggling between ISs. brylf the KVM switch can be configured to disable eripherals other than the keyboard, video monitor, and mouse, modify the configuration to disable this feature.					
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:  Fix(es):	DCBP-1 V0006682 The KVM switch has The feature that auto contains sensitive inf The IAO or SA will er SHARING PERIPHE SPAN KVM01.008.00 assistance of the IAO SPAN KVM02.008.00 the ability to switch p If the KVM switch car SPAN STIG.	the feature for automatically toggling between ISs and it is not disabled.  matically toggles between connected ISs or active ISs can cause a screen to be automatically displayed that formation. This can lead to the compromise of sensitive data.  Issure that the feature for automatically toggling between ISs is disabled.  RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  1: If the KVM switch has the feature for automatically toggling between ISs, the reviewer will verify, with the for SA, that it is disabled. If the feature is disable but the configuration is not protected then this is a finding.  2: Disable the feature for automatically toggling between ISs. by If the KVM switch can be configured to disable eripherals other than the keyboard, video monitor, and mouse, modify the configuration to disable this feature. In the configured to disable this feature replace the KVM switch with a KVM switch that is compliant with the					

KVM01.009.00	CAT: <b>2</b>	KVM Miscellaneous hot key features				
8500.2 IA Control:	DCBP-1	Category: 2.1 - Object Permissions				
VMS Vul Key:	V0006683					
Vulnerability	A "hot key" feature i	s enabled other than the menu feature that allows the user to select the IS to be used from the displayed menu.				
	all features for all ve KVM switch to allow available to review t The IAO or SA will e	There are many "hot key" features that could be used. Since each vender has a different set of features and it is impractical to review all features for all vender for potential vulnerabilities, no features other than the ability to bring up a menu of the ISs available on the KVM switch to allow the user to select which IS they wish to display. Additional features will be approved if requested and time is available to review the feature and it implementation.  The IAO or SA will ensure that the only "hot key" feature enabled is the menu feature that allows the user to select the IS to be used from the displayed menu.				
References:	SHARING PERIPHI	ERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE				
Checks:		00: The reviewer will, with the assistance of the IAO or SA, verify that the only "hot key" feature enabled is the menu he user to select the IS to be used from the displayed menu. If the configuration cannot be protected this will be J.				
Fix(es):	SPAN KVM01.009.0	00: Disable any unauthorized "hot key" features in the KVM switch's configuration.				
KVM01.011.00	CAT: <b>3</b>	KVM Configuration Backup				
	-	·				
8500.2 IA Control:		Category: 13.4 - Backup & Recovery				
VMS Vul Key:		or a paper-document backup is not maintained for the configuration of the KVM switch.				
Vulnerability	Without a backup of the advent that it is	the KVM switch's configuration, you can have a denial of service if the configuration cannot be restored quickly in lost or a faulty switch needs to be replaced.				
References:	SHARING PERIPHI	ERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE				
Checks:	SPAN KVM01.011.0	00: Interview the IAO or SA to verify that a backup of the configuration is maintained.				
Fix(es):	SPAN KVM01.011.0	00: Create a machine-readable or paper-document backup of the KVM switch configuration.				
OPE	N: NO	T A FINDING: NOT REVIEWED: NOT APPLICABLE:				

KVM02.001.00

CAT: 3

# **KVM Physical description of connections** 8500.2 IA Control: DCHW-1 Category: 13.4 - Backup & Recovery VMS Vul Key: V0006685 Vulnerability A written description of the KVM switch, the ISs attached to the KVM switch, and the classification level of each IS attached to the KVM Vulnerability Without a written description of the KVM switch, the ISs attached to the KVM switch, and the classification level of each IS attached to Discussion: the KVM switch, tampering with the KVM switch by adding or moving connections cannot be verified and the physical configuration cannot be reproduced if needed. This can lead to a denial of service if a connection is removed or moved, or a compromise of sensitive data if a connection is added or moved. The IAO will maintain a written description of the KVM switch, the ISs attached to the KVM switch, and the classification level of each IS attached to the KVM switch. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM02.001.00: The reviewer will verify that the description exists and check that it accurately describes the switch and its attached ISs. An annotated drawing or diagram is acceptable. Fix(es): SPAN KVM02.001.00: Create a written description of the KVM switch, the ISs attached to the KVM switch, and the classification level for each IS attached to the KVM switch. OPEN: NOT A FINDING: NOT REVIEWED: **NOT APPLICABLE:** Notes: KVM02.002.00 CAT: 2 **KVM Switch Configuration Password change** 8500.2 IA Control: DCBP-1 Category: 2.1 - Object Permissions VMS Vul Key: V0006686 Vulnerability The KVM switch is not configured to force the change of the configuration password every 90 days or that there is no policy and procedure in place to change the configuration password every 90 days. Vulnerability The longer time between password changes the greater the chance that the password will become compromised. A compromised password can allow a malicious user to change the configuration of the KVM switch creating a denial of service or a compromise of The IAO will ensure that the KVM switch is configured to force the change of the configuration password every 90 days or that there is a policy and procedure in place to change the configuration password every 90 days. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM02.002.00: The reviewer will, with the assistance of the IAO or SA, verify that the KVM switch is configured to force the change of the configuration password every 90 days or that there is a policy and procedure in place to change the configuration password every 90 days. Fix(es): SPAN KVM02.002.00: Configure the KVM switch to force the change of the configuration password every 90 days or if the KVM switch does not support this functionality, create a policy and procedure to change the configuration password every 90 days. OPEN: **NOT A FINDING:** NOT REVIEWED: NOT APPLICABLE: Notes:

	CAT: <b>1</b>	KVM switch RAS				
8500.2 IA Control:	EBRP-1	Category: 2.1 - Object Permissions				
VMS Vul Key:	V0006687					
Vulnerability		as the ability to support a RAS connection, this feature is not disabled or the connectors on the KVM switch ure are not blocked with a tamper resistant seal.				
	auditing. This feature that the feature may The IAO has not en	VM switches that support Dialup Remote Access (RAS) do not support a robust identification and authorization process or robust uditing. This feature will not be used. The tamper resistant seals over the port(s) that support this feature will serve as an indicator at the feature may have been used for unauthorized access to the KVM switch.  The IAO has not ensured that if the KVM switch has the ability to support a RAS connection, this feature is disabled and the connectors the KVM switch supporting this feature are blocked with a tamper resistant seal.				
References:	SHARING PERIPH	IERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE				
Checks:		00: The reviewer will, with the assistance of the IAO, will verify that if the KVM switch has the ability to support a is feature is disabled and the connectors on the KVM switch supporting this feature are blocked with a tamper				
Fix(es):		00: Configure the KVM switch to disable the RAS feature, remove all hardware from the KVM switch that supports ock all connectors on the KVM switch that support this feature with tamper resistant seals.				
ОРЕ	N: NO	T A FINDING: NOT REVIEWED: NOT APPLICABLE:				
Notes:						
KVM02.004.00	CAT: <b>3</b>	DAA Written Permission KVM span classification				
<b>KVM02.004.00</b> 8500.2 IA Control:		DAA Written Permission KVM span classification  Category: 2.1 - Object Permissions				
	DCBP-1	•				
8500.2 IA Control: VMS Vul Key:	DCBP-1 V0006698	Category: 2.1 - Object Permissions  from the DAA responsible for each IS attached to a KVM switch that is attached to ISs of different classification				
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability	DCBP-1 V0006698 Written permission levels is not being in the DAA responsibe the use of the KVM what requirements though they are approximately and they are approximately	Category: 2.1 - Object Permissions  from the DAA responsible for each IS attached to a KVM switch that is attached to ISs of different classification maintained.  ole for a IS attached to a KVM switch that has other ISs attached of differing classifications levels must approve of switch. The DAA is the only individual that may be cognizant of the nature of the data accessible from the IS and have been placed on its access. There may have a need to have the system isolated from KVM switches even proved for use in spanning classification levels.  of different classification levels, the IAM will maintain written permission from all DAAs responsible for all ISs that are				
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion:	DCBP-1 V0006698 Written permission levels is not being in The DAA responsibe the use of the KVM what requirements if though they are app. When the ISs are of connected to a KVM.	Category: 2.1 - Object Permissions  from the DAA responsible for each IS attached to a KVM switch that is attached to ISs of different classification maintained.  ole for a IS attached to a KVM switch that has other ISs attached of differing classifications levels must approve of switch. The DAA is the only individual that may be cognizant of the nature of the data accessible from the IS and have been placed on its access. There may have a need to have the system isolated from KVM switches even proved for use in spanning classification levels.  of different classification levels, the IAM will maintain written permission from all DAAs responsible for all ISs that are				
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:	DCBP-1 V0006698 Written permission levels is not being in the use of the KVM what requirements I though they are app When the ISs are of connected to a KVM SHARING PERIPH SPAN KVM02.004.	Category: 2.1 - Object Permissions  from the DAA responsible for each IS attached to a KVM switch that is attached to ISs of different classification maintained.  ole for a IS attached to a KVM switch that has other ISs attached of differing classifications levels must approve of switch. The DAA is the only individual that may be cognizant of the nature of the data accessible from the IS and have been placed on its access. There may have a need to have the system isolated from KVM switches even proved for use in spanning classification levels.  of different classification levels, the IAM will maintain written permission from all DAAs responsible for all ISs that and switch.				
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion:  References: Checks:	DCBP-1 V0006698 Written permission levels is not being in The DAA responsib the use of the KVM what requirements I though they are app When the ISs are or connected to a KVM SHARING PERIPH SPAN KVM02.004. attached to a KVM SPAN KVM02.004. the DAA responsible At the earliest time.	Category: 2.1 - Object Permissions  from the DAA responsible for each IS attached to a KVM switch that is attached to ISs of different classification maintained.  ole for a IS attached to a KVM switch that has other ISs attached of differing classifications levels must approve of switch. The DAA is the only individual that may be cognizant of the nature of the data accessible from the IS and have been placed on its access. There may have a need to have the system isolated from KVM switches even proved for use in spanning classification levels.  of different classification levels, the IAM will maintain written permission from all DAAs responsible for all ISs that are M switch.  IERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  Oo: The reviewer will interview the IAM and verify that written permission from the DAA responsible for each IS				
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion:  References: Checks:	DCBP-1 V0006698 Written permission levels is not being in The DAA responsible the use of the KVM what requirements though they are app. When the ISs are of connected to a KVM SHARING PERIPH SPAN KVM02.004. attached to a KVM span KVM02.004. attached to a KVM02.004. attached to	Category: 2.1 - Object Permissions  from the DAA responsible for each IS attached to a KVM switch that is attached to ISs of different classification maintained.  ole for a IS attached to a KVM switch that has other ISs attached of differing classifications levels must approve of switch. The DAA is the only individual that may be cognizant of the nature of the data accessible from the IS and have been placed on its access. There may have a need to have the system isolated from KVM switches even proved for use in spanning classification levels.  of different classification levels, the IAM will maintain written permission from all DAAs responsible for all ISs that are with switch.  IERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  O0: The reviewer will interview the IAM and verify that written permission from the DAA responsible for each IS switch that is attached to ISs of different classification levels is being maintained. View the documentation.  O0: Obtain written permission for the IS to be attached to the KVM switch in accordance with the SPAN STIG from the for the system in question so as not to impact production, if written permission has not received, the IS will be removed from the KVM switch				
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion:  References: Checks: Fix(es):	DCBP-1 V0006698 Written permission levels is not being in The DAA responsible the use of the KVM what requirements though they are app. When the ISs are of connected to a KVM SHARING PERIPH SPAN KVM02.004. attached to a KVM span KVM02.004. attached to a KVM02.004. attached to	from the DAA responsible for each IS attached to a KVM switch that is attached to ISs of different classification maintained.  Die for a IS attached to a KVM switch that has other ISs attached of differing classifications levels must approve of switch. The DAA is the only individual that may be cognizant of the nature of the data accessible from the IS and have been placed on its access. There may have a need to have the system isolated from KVM switches even proved for use in spanning classification levels.  If different classification levels, the IAM will maintain written permission from all DAAs responsible for all ISs that are witten as a compact of the IS to be attached to ISs of different classification levels is being maintained. View the documentation.  OD: Obtain written permission for the IS to be attached to the KVM switch in accordance with the SPAN STIG from the forthe system in question so as not to impact production, if written permission has not received, the IS will be removed from the KVM switch parate keyboard, video monitor, and mouse until written permission is received.				
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion:  References: Checks: Fix(es):	DCBP-1 V0006698 Written permission levels is not being in The DAA responsible the use of the KVM what requirements though they are app. When the ISs are of connected to a KVM SHARING PERIPH SPAN KVM02.004. attached to a KVM span KVM02.004. attached to a KVM02.004. attached to	from the DAA responsible for each IS attached to a KVM switch that is attached to ISs of different classification maintained.  Die for a IS attached to a KVM switch that has other ISs attached of differing classifications levels must approve of switch. The DAA is the only individual that may be cognizant of the nature of the data accessible from the IS and have been placed on its access. There may have a need to have the system isolated from KVM switches even proved for use in spanning classification levels.  If different classification levels, the IAM will maintain written permission from all DAAs responsible for all ISs that are witten as a compact of the IS to be attached to ISs of different classification levels is being maintained. View the documentation.  OD: Obtain written permission for the IS to be attached to the KVM switch in accordance with the SPAN STIG from the forthe system in question so as not to impact production, if written permission has not received, the IS will be removed from the KVM switch parate keyboard, video monitor, and mouse until written permission is received.				

## KVM02.005.00 CAT: 2 KVM switch List for ISs differing classification 8500.2 IA Control: DCBP-1 Category: 2.1 - Object Permissions VMS Vul Key: V0006699 Vulnerability A KVM or A/B switch that is not found on an approved list is connected to ISs that are at different classification levels. Vulnerability Only KVM switches that have been tested and verified to not allow the transfer of data from one IS to another will be used when the ISs Discussion: connected to the switch are of differing classification levels. When the KVM switch is attached to ISs of different classification levels, the IAO will ensure that only approved KVM or A/B switches are used. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM02.005.00: The reviewer will verify that the KVM or A/B switch attached to ISs of different classification levels exists on one of the following lists. 1. The National Information Assurance Partnership (NIAP) National Information Assurance Certification and Accreditation Process (NIACAP) List. 2. DISN Security Accreditation Working Group (DSAWG) Approved KVM Switch List. The SIPRNet Connection Approval Office (SCAO) will maintain a DISN Approved Products List. To locate the NIACAP list: Go to http://niap.nist.gov/and follow the link to "Validated Products" found in the left most column of the screen. On the Validated Products page follow the link to "Peripheral Switch" found in the bottom row second column of the table. To Locate the DSAWG list: Go to https://iase.disa.mil/cap. This information is located under the document titled DISN Peripheral Sharing Device Guidance. Refer to the power point file of the document to locate the list. Fix(es): SPAN KVM02.005.00: Immediately replace the unapproved KVM switch with an approved KVM switch. If there is not an approved KVM switch available, remove all ISs from the unapproved KVM switch and attach a separate keyboard, video monitor, and mouse to each IS. Alternately the ISs can be segregated by classification level on as many KVM switches, that are compliant with the SPAN STIG, as needed.. OPEN: **NOT A FINDING:** NOT REVIEWED: NOT APPLICABLE: Notes: KVM02.006.00 CAT: 3 KVM Differing Classification levels Cascaded 8500.2 IA Control: DCBP-1 Category: 2.1 - Object Permissions VMS Vul Key: V0006700 Vulnerability A KVM switch is cascaded while being attached to ISs of different classification levels. Vulnerability Cascading KVM switches, connecting one switch to another switch, can make it difficult to determine which system is current connected Discussion: to the keyboard, video and mouse by simple observation. In situations where the ISs are of differing classification levels this could lead to the compromise of sensitive or classified data or a denial of service caused by a privileged command being given to the wrong system. When the KVM switch is attached to ISs of different classification levels, the IAO or SA will ensure that no KVM switches are cascaded. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM02.006.00: The reviewer will check the connections for the KVM switch to verify that it is not connected to another KVM switch when ISs of different classification levels are attached. Fix(es): SPAN KVM02.006.00: Develop a plan to remove all cascaded KVM switches as soon as possible without disrupting production. Connect each IS to a open port on a KVM switch that is in turn only connected to a keyboard, video monitor, and mouse, not to another KVM switch. Obtain CM approval for the plan and execute the plan at the earliest opportunity. NOT A FINDING: NOT REVIEWED: NOT APPLICABLE: OPEN: Notes:

# KVM02.007.00 CAT: 2 **KVM Spaning Classification Level Tamper Seals** 8500.2 IA Control: DCBP-1 Category: 2.1 - Object Permissions VMS Vul Key: V0006701 Vulnerability Tamper resistant seals are not attached to the KVM switch and all IS cables at their attachment points where the KVM switch is attached to ISs of different classification levels. Vulnerability Tamper resistant seals are tape designed to break if tampered with. They are used to indicate that a cabinet has been opened or a Discussion: cable removed, moved or added. For KVM switches attached to ISs of differing classification levels it is necessary to be aware of any potential tampering with the connections. Switching the cables for two ISs could lead to the compromise of sensitive data. Removal of a cable could lead to a denial of service until it is reattached. The IAO or SA will ensure that tamper resistant seals are attached to the KVM switch and all IS cables at their attachment points. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM02.007.00: The reviewer will verify that tamper resistant seals are attached to the KVM switches and to the IS cable For cables these seals will be place across the junction between the switch and the cable. For the KVM witch the seals will be placed across the KVM case joints so that opening the case will break the seal. Fix(es): SPAN KVM02.007.00: Obtain tamper resistant seals and apply them to the KVM switch case joints so that if the case is open the seal will be broken. Also place them across the junction between the IS cables and the KVM switch so that if a cable is moved or removed the seal will be broken. **NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:** OPEN: Notes: KVM02.008.00 CAT: 1 **KVM Differing Classification Switch Peipheral** 8500.2 IA Control: DCBP-1 Category: 2.1 - Object Permissions VMS Vul Kev: V0006702 Vulnerability A KVM switch is being used to switch a peripheral other than a keyboard, video or mouse in an environment where the KVM switch is attached to ISs of different classification levels.. Vulnerability Since the other peripheral devices could contain persistent memory and allow data to become compromised by moving it between ISs Discussion: of differing classification levels this would create an unacceptable situation. This includes the ability to switch a smart card reader. If the switch has this ability and it is not disabled it will be assumed that it is being used. When the KVM switch is attached to ISs of different classification levels, the IAO or SA will ensure, if the KVM switch has the ability to switch peripheral devices other than the keyboard, video, and mouse, that this feature is disabled. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM02.008.00: The reviewer will, with the assistance of the IAO or SA, verify that the KVM switch is not configured to switch peripherals other than a Keyboard, Video, and Mouse. Note: This includes but is not limited to a smart card reader. Note: The most likely interface that would be used with this feature would be USB but it may be any legacy I/O interfaces. Fix(es): SPAN KVM02.008.00: Disable the feature for automatically toggling between ISs.<br/> spr-If the KVM switch can be configured to disable the ability to switch peripherals other than the keyboard, video monitor, and mouse, modify the configuration to disable this feature. If the KVM switch cannot be configured to disable this feature replace the KVM switch with a KVM switch that is compliant with the SPAN STIG. OPEN: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE: Notes:

VM02.009.00	CAT: <b>1</b>	KVM Differing (	Classification Periph	erals Attached	
3500.2 IA Control:	DCBP-1		Category: 2.1 - Object P	Permissions	
VMS Vul Key:	V0006703				
Vulnerability	Peripherals other that	an a keyboard, video, or mo	use are attached to a KVM switch	h that is attached to ISs of different classification	on levels.
	regardless of the cur data between ISs of When the KVM switch	rrent configuration of the KV different classification levels	M switch. This peripheral can co s compromising either the data the rent classification levels, the IAO	ouse attached to a KVM switch is intended to ontain persistent memory that can be used to reat was moved and the IS to which the data ware, the SA, and the user will ensure that no perip	move as moved.
References:	SHARING PERIPHE	ERALS ACROSS THE NETV	WORK SECURITY TECHNICAL	IMPLEMENTATION GUIDE	
Checks:			e KVM switch, used in an environ e keyboard, video, and mouse ar	nment where it is attached to ISs of different creattached.	learance
Fix(es):	SPAN KVM02.009.0			it is attached to with tamper resistant seals.	
ОРЕ	N: NO	Γ A FINDING:	NOT REVIEWED:		
Notes:					
<b>CVM02.010.00</b> 8500.2 IA Control:	CAT: <b>2</b>	KVM Differing (	Classification Unbloc Category: 2.1 - Object P		
VMS Vul Key:	-		Outogory. 2.1 Object 1	Cimissions	
•	A KVM switch, which	n is attached to ISs of differe mouse that are not blocked w		ectors for additional peripherals other than the	e
	to ISs of differing claseals, have been tar otherwise. If data is been compromised. When the KVM swite	assification levels, and that d impered with and have been transferred between ISs of	lo not have the connectors for the used to transfer data between IS different classification levels the rent classification levels, the IAO	seyboard, video monitor, and mouse, that are a eadditional peripherals blocked with tamper reso of different classifications levels until provendata has been compromised and the receiving or SA will ensure that the connectors for additional contents of the connectors for additional contents are contents.	esistant o g IS has
References:	SHARING PERIPHE	ERALS ACROSS THE NETV	WORK SECURITY TECHNICAL	IMPLEMENTATION GUIDE	
Checks:			e KVM switch, which is attached d, video or mouse are blocked wi	to ISs of different classification levels, to verifith tamper resistant seals.	y that all
Fix(es):			seals and apply them across the ble is attached to the connector t	connectors for peripherals other than the keyb the seal will be broken.	ooard,
ОРЕ	N: NO	Γ A FINDING:	NOT REVIEWED:	NOT APPLICABLE:	
Notes:					

# KVM03.001.00 CAT: 1 **Network KVM used to Administer not Out-of-Band** 8500.2 IA Control: DCBP-1 Category: 8.3 - Encryption Boundry VMS Vul Key: V0006705 Vulnerability A network attached KVM switch used to administer ISs is not attached to an "out-of-band" network. Vulnerability If a network attached KVM switch is attached to an out-of-band network there is less opportunity for a malicious user to compromise the Discussion: interface and create a denial of service by issuing disruptive commands to a server. The IAO or SA will ensure a network attached KVM switch used to administer ISs is connected to an "out-of-band" network. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM03.001.00: The reviewer will interview the IAO or SA to verify that a network attached KVM switch used to administer ISs is connected to an "out of band" network. Fix(es): SPAN KVM03.001.00: Develop a plan that will attach all network attached KVM switches used to administer ISs to a out-of-band network. Obtain CM approval and implement the plan. OPEN: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE: Notes: KVM03.002.00 CAT: 1 **Network KVM Classification of Network** 8500.2 IA Control: ECIC-1 Category: 9.1 - SABI VMS Vul Key: V0006706 Vulnerability The network attached KVM switch is attached to a network that is not at the same classification level as the ISs attached. Vulnerability If a network attached KVM switch is attached to a network of a different classification level than the ISs attached to the KVM switch, this Discussion: will lead to a compromise of sensitive data either on the network or on the ISs. The IAO will ensure that network attached KVM switches are only connected to a network that is at the same classification level as the ISs attached References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM03.002.00: The reviewer will interview the IAO to verify that a network attached KVM switch is attached to a network of the same classification level as the ISs attached. Fix(es): SPAN KVM03.002.00: Remove the KVM switch from the network when the KVM IS attached to the KVM switch are at a different classification level then the network. Attach the KVM switch to a network of the appropriate classification level. OPEN: **NOT A FINDING: NOT REVIEWED:** NOT APPLICABLE: Notes:

KVM03.003.00	CAT: <b>1</b>	Network KVM Network Infrastructure Compliance					
8500.2 IA Control:	DCCS-1: DCCS-2	Category: 14.3 - Network Device Configuration					
VMS Vul Key:	V0006707						
Vulnerability	The network-facing co	e network-facing component of a network attached KVM switch is not compliant with the current Network Infrastructure STIG.					
		components of a network attached KVM switch are not in compliance with the Network Infrastructure STIG the cose the network to vulnerabilities that could lead to a denial of service caused by the disruption of the network or sitive data.					
References:	SHARING PERIPHEI	RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE					
Checks:		2: The reviewer will interview the IAO to verify that a Network review has been performed on the network that the ed and that all findings discovered during the network review dealing with the KVM switch have been closed.					
Fix(es):		): Perform a self-assessment on the network the KVM switch is attached or request FSO to schedule and perform ollowing the review close all findings.					
OPE	N: NOT	A FINDING: NOT REVIEWED: NOT APPLICABLE:					
Notes:							
KVM03.004.00	CAT: <b>1</b>	Network KVM Login					
8500.2 IA Control:	IAIA-1: IAIA-2	Category: 2.1 - Object Permissions					
VMS Vul Key:	V0006708						
Vulnerability	The KVM switch is no	ot configured to require the user to login to the KVM switch to access the ISs attached.					
	and if they have know data compromising the The IAO will ensure the	and authentication of the user accessing the network attached KVM switch anyone can access the ISs attached wledge of a valid userid and password for the IS disrupt the system causing a denial of service or access sensitive lat data.  That the KVM switch is configured to require the user to login to the KVM switch to access the ISs attached. PKI extable and preferred to password authentication.					
References:	SHARING PERIPHEI	RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE					
Checks:	SPAN KVM03.004.00 authentication	2: The rewivewe will, with the assistance of the IAO, try to access the network attached KVM switch without valid					
Fix(es):		2: Reconfigure the network attached KVM switch to require the users to login to the KVM switch prior to being a ISs attached to the KVM switch.					
OPE	N: NOT	A FINDING: NOT REVIEWED: NOT APPLICABLE:					
Notes:							

	CAT: <b>1</b>	Network KVM DOD Complaint Password			
8500.2 IA Control:	IAIA-1: IAIA-2	Category: 1.1 - Passwords			
VMS Vul Key:	V0006709				
Vulnerability	The KVM switch is not configured to require DOD compliant password.				
	Strong passwords are harder to guess or discover via brut force making the system more secure from malicious tampering. The IAO will ensure that the KVM switch is configured to require DOD compliant password.				
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE				
Checks:	SPAN KVM03.005.00: The reviewer will, with the assistance of the IAO, try to change a password to a non-compliant password. The use of PKI authentication would make this a check not a finding.				
Fix(es):		00: Reconfigure the network attached KVM switch to require DOD compliant Passwords. If this is not possible itch with a KVM switch that can be configured to enforce DOD compliant passwords.			
ОРЕ	N: NO	T A FINDING: NOT REVIEWED: NOT APPLICABLE:			
Notes:					
KVM03.006.00	CAT: <b>1</b>	Network KVM Group Userid			
<b>KVM03.006.00</b> 8500.2 IA Control:		Network KVM Group Userid  Category: 1.3 - Identity Management			
	IAGA-1	•			
8500.2 IA Control: VMS Vul Key:	IAGA-1 V0006710	•			
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability	IAGA-1 V0006710 Group or shared use Usage of group or sl this could make pros	Category: 1.3 - Identity Management erids are being used on a network attached KVM switch.  hared userids makes it impossible to attribute an action to the originating user. In the case of a malicious action			
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion:	IAGA-1 V0006710 Group or shared use Usage of group or sl this could make pros The IAO will ensure	Category: 1.3 - Identity Management erids are being used on a network attached KVM switch.  hared userids makes it impossible to attribute an action to the originating user. In the case of a malicious action secution impossible.			
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:	IAGA-1 V0006710 Group or shared use Usage of group or sl this could make pros The IAO will ensure SHARING PERIPHE	Category: 1.3 - Identity Management erids are being used on a network attached KVM switch. hared userids makes it impossible to attribute an action to the originating user. In the case of a malicious action secution impossible. that group or shared userids are not used.			
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:	IAGA-1 V0006710 Group or shared use Usage of group or sl this could make pros The IAO will ensure SHARING PERIPHE SPAN KVM03.006.0	Category: 1.3 - Identity Management  erids are being used on a network attached KVM switch.  hared userids makes it impossible to attribute an action to the originating user. In the case of a malicious action secution impossible.  that group or shared userids are not used.  ERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  10: The reviewer will interview the IAO verify that a group or shared userids are not being used.  10: Remove the shared or group userid and issue individual userids to each user who requires access to the			
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:	IAGA-1 V0006710 Group or shared use Usage of group or sl this could make pros The IAO will ensure SHARING PERIPHE SPAN KVM03.006.0 SPAN KVM03.006.0 network attached KV	Category: 1.3 - Identity Management  erids are being used on a network attached KVM switch.  hared userids makes it impossible to attribute an action to the originating user. In the case of a malicious action secution impossible.  that group or shared userids are not used.  ERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  10: The reviewer will interview the IAO verify that a group or shared userids are not being used.  10: Remove the shared or group userid and issue individual userids to each user who requires access to the			
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:  Fix(es):	IAGA-1 V0006710 Group or shared use Usage of group or sl this could make pros The IAO will ensure SHARING PERIPHE SPAN KVM03.006.0 SPAN KVM03.006.0 network attached KV	Category: 1.3 - Identity Management  Perids are being used on a network attached KVM switch.  In the case of a malicious action secution impossible.  Ithat group or shared userids are not used.  ERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  100: The reviewer will interview the IAO verify that a group or shared userids are not being used.  100: Remove the shared or group userid and issue individual userids to each user who requires access to the IMPLEMENTATION.			

KVM03.007.00	CAT: <b>3</b>	Network KVM Users Restricted to ISs.			
8500.2 IA Control:	ECAN-1	Category: 2.1 - Object Permissions			
VMS Vul Key:	V0006711				
Vulnerability	The network attached KVM switch is not configured to restrict users access only to the systems they require.				
,	Users accessing ISs that they do not access to can lead to the compromise of sensitive data.  The IAO will ensure that the KVM switch is configured to restrict users access only to the systems they require.				
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE				
Checks:	SPAN KVM03.007.00: The reviewer will, with the assistance of the IAO, try to access a system not allowed to the user signed onto the network attached KVM switch.				
Fix(es):	SPAN KVM03.007.0	00: Reconfigure the network attached KVM switch to restrict users to systems they need to access.			
OPE	N: NO	T A FINDING: NOT REVIEWED: NOT APPLICABLE:			
Notes:					
KVM03.008.00	CAT: <b>3</b>	Network KVM Warning Banner			
KVM03.008.00 8500.2 IA Control:		Network KVM Warning Banner  Category: 11.6 - Warning Banners			
	ECWM-1				
8500.2 IA Control: VMS Vul Key:	ECWM-1 V0006712				
8500.2 IA Control: VMS Vul Key: Vulnerability	ECWM-1 V0006712 The network attache 6510.01. The warning banner	Category: 11.6 - Warning Banners			
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion:	ECWM-1 V0006712 The network attache 6510.01. The warning banner Without this banner Chairman of the Join	Category: 11.6 - Warning Banners  ed KVM switch does not display an Electronic Notice and Consent Banner complaint with requirements of CJSCM r notifies the user that they are accessing a DOD system and that they consent to having their actions monitored.			
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion: References:	ECWM-1 V0006712 The network attache 6510.01. The warning banner Without this banner Chairman of the Joir ACROSS THE NET	Category: 11.6 - Warning Banners  ed KVM switch does not display an Electronic Notice and Consent Banner complaint with requirements of CJSCM r notifies the user that they are accessing a DOD system and that they consent to having their actions monitored. it is difficult to prosecute individuals who violate the usage restrictions of the IS.  nt Chiefs of Staff Manual (CJCSM) 6510.01, "Defense-in-Depth: Information Assuran: SHARING PERIPHERALS			
VMS Vul Key: Vulnerability Vulnerability Discussion: References: Checks:	ECWM-1 V0006712 The network attache 6510.01. The warning banner Without this banner Chairman of the Join ACROSS THE NET SPAN KVM03.008.00 that a compliant war	Category: 11.6 - Warning Banners  ed KVM switch does not display an Electronic Notice and Consent Banner complaint with requirements of CJSCM r notifies the user that they are accessing a DOD system and that they consent to having their actions monitored. It is difficult to prosecute individuals who violate the usage restrictions of the IS.  Int Chiefs of Staff Manual (CJCSM) 6510.01, "Defense-in-Depth: Information Assuran: SHARING PERIPHERALS WORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  100: The reviewer will, with the assistance of the IAO or the SA, access the network attached KVM switch to verify raning banner is displayed.  100: Reconfigure to network KVM switch to display a warning banner in accordance with the SPAN STIG.			
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion: References: Checks:	ECWM-1 V0006712 The network attache 6510.01. The warning banner Without this banner Chairman of the Join ACROSS THE NET SPAN KVM03.008.0 that a compliant war SPAN KVM03.008.0	Category: 11.6 - Warning Banners  ed KVM switch does not display an Electronic Notice and Consent Banner complaint with requirements of CJSCM reports to notifies the user that they are accessing a DOD system and that they consent to having their actions monitored. It is difficult to prosecute individuals who violate the usage restrictions of the IS.  Int Chiefs of Staff Manual (CJCSM) 6510.01, "Defense-in-Depth: Information Assuran: SHARING PERIPHERALS WORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  100: The reviewer will, with the assistance of the IAO or the SA, access the network attached KVM switch to verify rining banner is displayed.			

KVM03.009.00	CAT: <b>1</b>	Network KVM Encryption			
8500.2 IA Control:	ECNK-1	Category: 8.1 - Encrypted Data in Transit			
VMS Vul Key:	V0006713				
Vulnerability	The KVM switch is not configured to use encrypted communications with FIPS 140-1/2 validated cryptography.				
	Because all administrative traffic contains sensitive data such as unencrypted passwords, it will be encrypted to protect it from interception. The KVM switch will be configured to require encryption for all communications via the network. NIST FIPS 140-1/2 validated cryptography will be used.  The IAO or SA will ensure that the KVM switch is configured to use encrypted communications using FIPS 140-1/2 validated cryptography.				
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE				
Checks:	SPAN KVM03.009.00: The reviewer will, with the assistance of the IAO or SA, verify that the network attached KVM switch is configured for encryption using FIPS 140-1/2 validated cryptography.				
Fix(es):	SPAN KVM03.009.0 the network.	SPAN KVM03.009.00: Reconfigure the network KVM switch to use FIPS-140-1/2 validated cryptography for all communications across the network.			
OPE	N: NO	T A FINDING: NOT REVIEWED: NOT APPLICABLE:			
Notes:					
KVM03.010.00	CAT: <b>1</b>	Network Encapsulated USB non KVM Traffic			
8500.2 IA Control:	DCBP-1	Category: 2.1 - Object Permissions			
VMS Vul Key:	V0006714				
Vulnerability	The KVM switch is c	configured to encapsulate and send USB connections other than KVM connections.			
	connections. This co	hed KVM switched can encapsulate USB connections other than the keyboard, video monitor, and mouse onnection could be a disk drive connection and could allow the transfer of data between the ISs attached to the client system attached via IP to the KVM switch leading to a compromise of sensitive data.  Insure that the KVM switch is not configured to encapsulate and send USB connections other than KVM			
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE				
Checks:	SPAN KVM03.010.00: The reviewer will, with the assistance of the IAO or SA, verify that the KVM switch is not configured to encapsulate and send USB connections other than KVM connections.				
	encapsulate and ser	nd USB connections other than KVM connections.			
Fix(es):	•	00: Reconfigure the network KVM switch so that it will not encapsulate USB connections other than the keyboard,			
Fix(es):	SPAN KVM03.010.0 video monitor, or mo	00: Reconfigure the network KVM switch so that it will not encapsulate USB connections other than the keyboard,			

## **Network KVM Unused USB Ports Tamper Seals** KVM03.011.00 CAT: 2 8500.2 IA Control: DCBP-1 Category: 2.1 - Object Permissions VMS Vul Key: V0006715 Vulnerability Unused USB ports on the KVM switch are not blocked with tamper resistant on a KVM switch that can encapsulate and send the USB protocol over the network to the client. Vulnerability By blocking the unused USB ports on the network attached KVM switch that can encapsulate USB over IP with tamper resistant seals Discussion: we will have an indication if someone has attached an unauthorized USB connection to the KVM switch. When a broke seal if found it should be investigated. The IAO will ensure that the USB ports on the KVM switch are blocked with tamper resistant seals if no USB connections are made to a KVM switch that can encapsulate and send the USB protocol over the network to the client References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM03.011.00: ilf the KVM switch can encrypt USB and send it over the network, the reviewer will view the KVM switch and verify that unused USB ports are blocked with tamper resistant seals. Fix(es): SPAN KVM03.011.00: Block unused USB ports on a network attached KVM switch that can encapsulate USB over IP with tamper resistant seals. **OPEN: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:** Notes: KVM03.012.00 CAT: 2 Network KVM Power Control of IS 8500.2 IA Control: DCBP-1: PECF-1: PECF-2 Category: 2.1 - Object Permissions VMS Vul Key: V0006716 Vulnerability A network attached KVM switch is configured to control the power supplied to the ISs attached to the KVM switch or the connectors on the KVM switch that support this feature are not blocked with tamper resistant seals. Vulnerability If a network attached KVM switch can control the power to the ISs attached to it and the KVM switch is compromised, a denial of Discussion: service can be caused by powering off all the ISs attached to the KVM switch without accessing the individual ISs. The IAO will ensure that any feature that allows the KVM switch to directly control the power supplied to the ISs is not configured or used, and that any connectors on the KVM switch used to support this feature are blocked with a tamper resistant seal. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM03.012.00: wWith the assistance of the IAO, verify that the network attached KVM switch is not configured to control the power of the ISs attached and that all connectors on the KVM switch that support this functionality are blocked with tamper resistant seals. Fix(es): SPAN KVM03.012.00: Remove the KVM switch's control over the power supplied to the ISs and block any connectors on the KVM switch used to support this feature with a tamper resistant seals. OPEN: **NOT A FINDING:** NOT REVIEWED: **NOT APPLICABLE:** Notes:

# KVM03.013.00 CAT: 1 **Network KVM ISs of different Classification Levels** 8500.2 IA Control: ECIC-1 Category: 9.1 - SABI VMS Vul Key: V0006717 Vulnerability A network attached KVM switch is attached to ISs of different classification levels. Vulnerability Because of the problems inherent in the spanning of networks of different classification levels, network attached KVM switches will not Discussion: be attached to ISs of different classification levels. This can lead to the compromise of sensitive data. The IAO will ensure the network attached KVM switches are not attached to ISs of different classification levels. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM03.013.00: The reviewer will interview the IAO to verify that a network attached KVM switch is not attached to ISs of different classification levels. Fix(es): SPAN KVM03.013.00: Remove all ISs from the network attached KVM switch that have a classification level that is different form the classificationI level of the network the KVM switch is attached to. Use a new network attached KVM switch for each classification level that you have ISs which where removed from the original KVM switch. Attach the KVM switch to a network that has the same classification level as the ISs that has been attach to the KVM switch. OPEN: **NOT A FINDING: NOT REVIEWED:** NOT APPLICABLE: Notes: KVM04.001.00 CAT: 4 A/B Switch User Agreements 8500.2 IA Control: PRRB-1 Category: 6.4 - Training & Certification VMS Vul Key: V0006718 **Vulnerability** There are no user agreements documenting the use of A/B switches. Vulnerability A signed users agreement is proof that the user has been informed of his security responsibilities when using an A/B switch. Discussion: The IAO will maintain written user agreements for all users authorized to use an A/B switch. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM04.001.00: The reviewer will interview the IAO and view the user agreements. A singed addendum to the SAAR is acceptable. Fix(es): SPAN KVM04.001.00: Create a standard user agreement for the use of A/B switches and have all authorized users of A/B switches sign them. OPEN: **NOT A FINDING:** NOT REVIEWED: **NOT APPLICABLE:** Notes:

KVM04.002.00

CAT: **3** 

A/B switch SFUG

8500.2 IA Control:	PRRB-1	Category:	6.4 - Training & Certifica	ition	
VMS Vul Key:	V0006719				
Vulnerability	There is no user documentation describing	ng the correct usage and	users responsibilities for a	an A/B switch.	
Vulnerability Discussion:	The Security Features Users Guide (SFUG) gives the users a single source to find security policy and guidance as to the users responsibility for security. The general policies and user responsibilities as apply to A/B switches and any local security policies will be placed in the SFUG or similar document.  The IAO will maintain and distribute to the users a SFUG that describes the correct uses of the switch and the users responsibilities.				
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE				
Checks:	SPAN KVM04.002.00: The reviewer will interview the IAO and view the SFUG or equivalent documentation to verify that the following points are discussed.  1. A/B switches should be used only if there is no other solution.  2. A/B switches should be used only to connect multiple peripheral devices to a single IS.  3. A/B switches should never be used to connect a single peripheral to multiple ISs.  4. If an A/B switch is used to connect or share peripheral devices between two or more ISs, the ISs should be intended for the use of a single user within the users work area, and be visible from all ISs that it is attached.				
Fix(es):	SPAN KVM04.002.00: Create a section policies and guidance for use of an A/B s		ntains general security po	olicies and guidance plus the site security	
ОРЕ	N: NOT A FINDING:	NOT RE	VIEWED:	NOT APPLICABLE:	
Notes:					
KVM04.003.00	CAT: 1 A/B Switch	n Physical prote	ction		
<b>KVM04.003.00</b> 8500.2 IA Control:			ction 5.9 - Device Locations		
KVM04.003.00 8500.2 IA Control: VMS Vul Key:	PECF-1: PECF-2				
8500.2 IA Control: VMS Vul Key:	PECF-1: PECF-2 V0006720	Category:	5.9 - Device Locations	st classification of any IS connected to the	
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability	PECF-1: PECF-2  V0006720  The A/B switch is not physically protected A/B switch.  If the A/B switch is not located in an area can lead to a compromise of sensitive data.	Category:  d in accordance with the r that has the same physicata.	5.9 - Device Locations equirements of the highe	·	
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion:	PECF-1: PECF-2  V0006720  The A/B switch is not physically protected A/B switch.  If the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not physically protected in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure the A/B switch in a compromise of sensitive da The IAO or SA will ensure the A/B will ensure the A/B will ensure the A/B will ensure the A/B will ensu	Category:  d in accordance with the r  that has the same physicata.  witch is physically protecte	5.9 - Device Locations requirements of the higher cal security as required by the distribution of the higher calls are considered in accordance with the	the IS of the highest clearance level this requirements of the highest classification	
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:	PECF-1: PECF-2  V0006720  The A/B switch is not physically protected A/B switch.  If the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch and IS connected to the A/B switch.  SHARING PERIPHERALS ACROSS TH SPAN KVM04.003.00: The reviewer will	Category:  d in accordance with the rathat has the same physicata.  witch is physically protecte  E NETWORK SECURITY  view the A/B switch to ve	5.9 - Device Locations equirements of the higheral security as required by ed in accordance with the TECHNICAL IMPLEMENT rify that it is physically pro-	the IS of the highest clearance level this requirements of the highest classification	
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:	PECF-1: PECF-2  V0006720  The A/B switch is not physically protected A/B switch.  If the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B stor any IS connected to the A/B switch.  SHARING PERIPHERALS ACROSS TH SPAN KVM04.003.00: The reviewer will of the highest classification of any IS comprotected.	Category:  d in accordance with the rathat has the same physicata.  witch is physically protected  E NETWORK SECURITY  view the A/B switch to veranceted to the A/B switch.	5.9 - Device Locations equirements of the higher cal security as required by the din accordance with the compact of the compac	the IS of the highest clearance level this requirements of the highest classification NTATION GUIDE betected in accordance with the requirements	
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:	PECF-1: PECF-2  V0006720  The A/B switch is not physically protected A/B switch.  If the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch any IS connected to the A/B switch.  SHARING PERIPHERALS ACROSS TH SPAN KVM04.003.00: The reviewer will of the highest classification of any IS comprotected.  SPAN KVM04.003.00: Move the A/B switch is attached.	Category:  d in accordance with the rathat has the same physicata.  witch is physically protected E NETWORK SECURITY view the A/B switch to verance to the A/B switch.  itch to a location where it d.	5.9 - Device Locations equirements of the higher cal security as required by the din accordance with the compact of the compac	requirements of the highest classification  NTATION GUIDE  otected in accordance with the requirements on as the ISs connected then it is adequately	
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:  Fix(es):	PECF-1: PECF-2  V0006720  The A/B switch is not physically protected A/B switch.  If the A/B switch is not located in an area can lead to a compromise of sensitive da The IAO or SA will ensure that the A/B switch any IS connected to the A/B switch.  SHARING PERIPHERALS ACROSS TH SPAN KVM04.003.00: The reviewer will of the highest classification of any IS comprotected.  SPAN KVM04.003.00: Move the A/B switch is attached.	Category:  d in accordance with the rathat has the same physicata.  witch is physically protected E NETWORK SECURITY view the A/B switch to verance to the A/B switch.  itch to a location where it d.	5.9 - Device Locations equirements of the higher cal security as required by ed in accordance with the TTECHNICAL IMPLEMENT if that it is physically profit it is in the same location.	requirements of the highest classification  NTATION GUIDE  Directed in accordance with the requirements on as the ISs connected then it is adequately  manner as required by the IS of the highest	

KVM04.004.00	CAT: <b>2</b>	A/B Switch Sharing Peripheral Between Users				
8500.2 IA Control:	DCBP-1 Category: 2.1 - Object Permissions					
VMS Vul Key:	V0006757					
Vulnerability	An A/B switch is used to share a peripheral device between two or more users.					
	When using a KVM switch to switch a peripheral between two or more users the risk always exists where the peripheral is connected to the wrong IS. An example would be a scanner where the user presses a button on the scanner which causes the IS the scanner is currently to initiate a scan. If the A/B is pointed to a different IS than the user intended the document would be scanned into the wrong system. This could lead to the compromise of sensitive data.  The IAO or SA will ensure that an A/B switch is not used to share a peripheral device between two or more users.					
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE					
Checks:	SPAN KVM04.004.0 between two users.	SPAN KVM04.004.00: The reviewer will interview the IAO or SA to verify that A/B switches are not being used to share peripherals between two users.				
Fix(es):		SPAN KVM04.004.00: Develop a plan to remove all A/B switches that are being used to switch peripherals between two or more users and to acquire new peripherals to support documented needs. Obtain CM approval of the plan and execute the plan.				
OPE	N: NO	A FINDING: NOT REVIEWED: NOT APPLICABLE:	<u></u>			
Notes:						
KVM04.005.00	CAT: <b>3</b>	A/B Switch Marking and Labeling				
<b>KVM04.005.00</b> 8500.2 IA Control:		A/B Switch Marking and Labeling  Category: 5.1 - Device Labels for Classification				
	ECML-1	-				
8500.2 IA Control: VMS Vul Key:	ECML-1 V0006758	-				
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability	ECML-1 V0006758 The A/B switch is no Failure to correctly m system for the currer by an IS compromisi	Category: 5.1 - Device Labels for Classification  marked in accordance with the Sharing Peripherals Across the Network STIG.  ark switch positions and cable connections can lead to teh A/B switch connecting the wrong device to the wront intended use. This can lead to a denial of access to a peripheral by an IS or the access of the wrong peripheral				
8500.2 IA Control: VMS Vul Key: Vulnerability Vulnerability Discussion:	ECML-1 V0006758 The A/B switch is no Failure to correctly m system for the currer by an IS compromisi The IAO or SA will en	Category: 5.1 - Device Labels for Classification  marked in accordance with the Sharing Peripherals Across the Network STIG.  ark switch positions and cable connections can lead to teh A/B switch connecting the wrong device to the wront intended use. This can lead to a denial of access to a peripheral by an IS or the access of the wrong peripheral sensitive data.				
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:	ECML-1 V0006758 The A/B switch is no Failure to correctly m system for the currer by an IS compromisi The IAO or SA will et SHARING PERIPHE SPAN KVM04.005.0 government owned et	Category: 5.1 - Device Labels for Classification  marked in accordance with the Sharing Peripherals Across the Network STIG.  ark switch positions and cable connections can lead to teh A/B switch connecting the wrong device to the wront intended use. This can lead to a denial of access to a peripheral by an IS or the access of the wrong peripheral sensitive data.  Insure that the A/B switch, cables, switch positions, and connectors are labeled in accordance with this STIG.				
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:	ECML-1 V0006758 The A/B switch is not Failure to correctly mystem for the currer by an IS compromising The IAO or SA will ensure SHARING PERIPHE SPAN KVM04.005.0 government owned expenses of the state	Category: 5.1 - Device Labels for Classification  marked in accordance with the Sharing Peripherals Across the Network STIG.  ark switch positions and cable connections can lead to teh A/B switch connecting the wrong device to the wront intended use. This can lead to a denial of access to a peripheral by an IS or the access of the wrong peripheral sensitive data.  Issure that the A/B switch, cables, switch positions, and connectors are labeled in accordance with this STIG.  RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  The reviewer will view the A/B switch to verify that it is marked in accordance with the STIG. It is marked quipment. The switch positions are marked as to the systems or peripherals connected. The cables and				
8500.2 IA Control:  VMS Vul Key:  Vulnerability  Vulnerability  Discussion:  References:  Checks:	ECML-1 V0006758 The A/B switch is no Failure to correctly m system for the currer by an IS compromisi The IAO or SA will er SHARING PERIPHE SPAN KVM04.005.0 government owned er connectors are mark SPAN KVM04.005.0	Category: 5.1 - Device Labels for Classification  marked in accordance with the Sharing Peripherals Across the Network STIG.  ark switch positions and cable connections can lead to teh A/B switch connecting the wrong device to the wront intended use. This can lead to a denial of access to a peripheral by an IS or the access of the wrong peripheral sensitive data.  Issure that the A/B switch, cables, switch positions, and connectors are labeled in accordance with this STIG.  RALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE  D: The reviewer will view the A/B switch to verify that it is marked in accordance with the STIG. It is marked quipment. The switch positions are marked as to the systems or peripherals connected. The cables and ed with the systems or peripherals that are connected and their clearance level.				

# KVM04.006.00 CAT: 2 A/B switch on ISs of Different Classification 8500.2 IA Control: DCBP-1 Category: 9.1 - SABI VMS Vul Key: V0006759 Vulnerability An A/B switches are used with ISs of differing classification levels that are not on the approved lists. Vulnerability An A/B switch not found on the Approved KVM and A/B Switch lists has not been tested to verify that it does not leak data between Discussion: systems. This can lead to the compromise of sensitive data or the compromise of the ISs attached to the A/B switch. The IAO will ensure that only approved KVM or A/B switches are used with ISs of differing classification levels. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM04.006.00: The reviewer will verify that the KVM or A/B switch attached to ISs of different classification levels exists on one of the following lists. 1. The National Information Assurance Partnership (NIAP) National Information Assurance Certification and Accreditation Process (NIACAP) List. 2. DISN Security Accreditation Working Group (DSAWG) Approved KVM Switch List. The SIPRNet Connection Approval Office (SCAO) will maintain a DISN Approved Products List. To locate the NIACAP list: Go to http://niap.nist.gov/and follow the link to "Validated Products" found in the left most column of the screen. On the Validated Products page follow the link to "Peripheral Switch" found in the bottom row second column of the table. To Locate the DSAWG list. Go to https://iase.disa.mil/cap. This information is located under the document titled DISN Peripheral Sharing Device Guidance. Refer to the power point file of the document to locate the list. Fix(es): SPAN KVM04.006.00: Replace the A/B switch with one from the approved KVM and A/B switch lists. If there is no A/B switch on the lists that performs the function needed, remove the A/B switch and obtain whatever hardware is need to restore the functionality required. OPEN: NOT A FINDING: **NOT REVIEWED:** NOT APPLICABLE: Notes: **CAT: 2** KVM04.007.00 A/B Different Classification Tamper Seals 8500.2 IA Control: DCBP-1 Category: 2.1 - Object Permissions VMS Vul Key: V0006760 Vulnerability Tamper resistant seals are not attached to the A/B switch and all IS cables at their attachment points for A/B switches attached to devices or ISs that have different classification levels. Vulnerability Without the presences of tamper resistance seals the A/B switch or its connections can be tampered with and the tampering will go Discussion: undetected. This can lead to the compromise of sensitive data or the compromise of an IS. When an A/B switch is attached to ISs of different clearance levels the IAO or SA will ensure that tamper resistant seals are attached to the A/B switch and all IS cables at their attachment points. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM04.007.00: The reviewer will, for an A/B switch attached to devices or ISs which are at different classification levels, view the A/B switch to verify that tamper resistant seals are attached to the A/B switch and all IS cables at their attachment points. Fix(es): SPAN KVM04.007.00: For an A/B switch attached to devices or ISs which are at different classification levels, attached tamper resistant seals as required by the SPAN STIG. **NOT APPLICABLE:** OPEN: NOT REVIEWED: **NOT A FINDING:** Notes:

KVM04.008.00

CAT: **3** 

# A/B Cascaded Differing Classification 8500.2 IA Control: DCBP-1 Category: 2.1 - Object Permissions VMS Vul Key: V0006761 Vulnerability A/B switches, that are connected to devices or ISs which are at different classification levels, are cascaded. Vulnerability When A/B switches are cascaded it is difficult to verify that the currently selected connection is the correct selection. When A/B Discussion: switches are used with ISs of differing classification levels this can lead to the compromis of sensitive data. When A/B switches are attached to ISs of different classification levels the IAO or SA will ensure that A/B switches are not cascaded. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM04.008.00: The reviewer will, for A/B switches, which are connected to devices or ISs that are at different classification levels, view the A/B switch to verify that A/B switches are not cascaded. Fix(es): SPAN KVM04.008.00: Remove the cascaded A/B switches that are connected to ISs of different classification levels. OPEN: **NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:** Notes: KVM04.009.00 CAT: 1 A/B Switch Different Classification Disk 8500.2 IA Control: DCBP-1 Category: 9.1 - SABI VMS Vul Key: V0006762 Vulnerability The An A/B switch is used to switch a peripheral device that has persistent memory or devices that support removable media between two or more ISs of different classification levels. Vulnerability If the peripheral device attached to an A/B switch, which is connected to ISs of differing classification levels, can be written to and read Discussion: from this can lead to the compromise of sensitive or classified data and/or the compromise of the ISs. The IAO or SA will ensure that A/B switches are not used to switch a peripheral device that has persistent memory or devices that support removable media between two or more ISs of different classification levels. References: SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE Checks: SPAN KVM04.009.00: The reviewer will view the A/B switch to verify that the A/B switch is not used to switch a peripheral device that has persistent memory or devices that support removable media between two or more ISs of different classification levels. This would include but not be limited to ZIP drives, hard disk drives, and writable CD drives. Fix(es): SPAN KVM04.009.00: Remove the A/B switch used to switch a peripheral device that has persistent memory or devices that support removable media between two or more ISs of different classification levels. OPEN: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE: Notes:

# KVM04.010.00 CAT: 1 A/B I/O Peripherals Different Classification

8500.2 IA Control:	DCBP-1 Category: 9.1 - SABI		
VMS Vul Key:	V0006763		
Vulnerability	Input or output devices including, but not limited to, scanners, printers or plotters are attached to an A/B switches that spans classification levels.		
	Input devices attached to A/B switches that are in turn attached to ISs of different classification levels could input data to the wrong IS compromising sensitive or classified data and/or the IS involved.  Output from output devices attached to A/B switches that are in turn attached to ISs of different classification levels could be picked up by an individual other than the one the data was intended, leading to a compromise of sensitive or classified data.  The IAO will ensure input and output devices including but not limited to scanners, printers or plotters are not attached to A/B switches that span classification levels.		
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE		
Checks:	SPAN KVM04.010.00: The reviewer will view the A/B switch to verify that input and output devices including, but not limited to, scanners, printers or plotters are not attached to an A/B switch that spans classification levels.		
Fix(es):	SPAN KVM04.010.00: Remove the A/B switch that is attached to an input or output peripheral and the A/B switch is connected to ISs of different classification levels.		
OPE Notes:	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:		
140103.			